Section V-C-Page 5	TV ENGINEERING DATA
20. Environmental Statement (See 47 C.)	Section 1.1301 et seq.)
Would a Commission grant of this applicant environmental impa	ct?  Ication come within Section 1.1307 of the FCC Rules, such that it may  Yes X No Exhibit No
if you answer Yes, submit as an Exhib	sit an Environmental Assessment required by Section 1.1311.
If No. explain briefly why not.  Proposed believed 1.1306, and 1.1307	to comply with pertinent provisions of Sections 1.1305, of FCC Rules (see also Exhibit A of Engineering Report).
	CERTIFICATION
	of this application on behalf of the applicant, and that after such preparation, I have examin
	of this application on behalf of the applicant, and that after such preparation, I have examin
	of this application on behalf of the applicant, and that after such preparation, I have examin
	of this application on behalf of the applicant, and that after such preparation, I have examin curate and true to the best of my knowledge and bellef.
	of this application on behalf of the applicant, and that after such preparation, I have examinate and true to the best of my knowledge and belief.  Kevin T. Fisher
7/21/58	of this application on behalf of the applicant, and that after such preparation, I have examinate and true to the best of my knowledge and belief.  Kevin T. Fisher
T/21/58	Kevin T. Fisher  Name (Typed or Printed)
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MAY & DUNNE

JOSEPH E. DUNNE III

'ALSO ADMITTED IN VIRGINIA

CHARTERED ATTORNEYS AT LAW

1156 - 15th STREET, N.W.

SUITE 515

WASHINGTON, D.C. 20005-1704

(202) 223-9013

RICHARD G. GAY OF COUNSEL

TELECOPIER NO. (202) 223-6992

HAND DELIVER

April 25, 1989

RECEIVED

APRIL DO

FEE SECTION

Donna R. Searcy
Secretary
Federal Communications Commission
Washington, D.C. 20554

RE: National Minority TV, Inc., KTDZ-TV, Portland, Oregon, Application for a TV Microwave Studio Transmitter Link

Dear Ms. Searcy:

Filed herewith, in triplicate, on behalf of the above-referenced permittee is an application submitted on FCC Form 313 for a new TV Microwave Studio Transmitter Link to be operated on frequencies 7100-7125 MHz.

Pursuant to section 1.1104 of the Commission's rules the application fee of \$75.00 is also tendered herewith.

If any questions should arise concerning this matter, kindly contact the undersigned directly.

Respectfully submitted,

MATIONAL MINORITY TV, INC.

By:

Colby M. May

Its Attorney

CMM: qmcB47

xc: Mrs. Jane Duff

	DO NOT WRITE IN THIS BOX
. opproved by OMB	File No.
3060-0028 Expires 10-31-86	1. LEGAL NAME OF APPLICANT
Federal Communications Commission Washington, D.C. 20554	NATIONAL MINORITY TV, INC.
APPLICATION FOR AUTHORIZATION IN THE AUXILIARY RADIO BROADCAST SERVICES	2. MAILING ADDRESS (Street) (24 characters)
(Carefully read instructions before filling out form.)	P.O. BOX C-11949
	City (20 characters)
3. CALL SIGN OF ASSOCIATED BROADCAST STATIONS	Santa Ana
Translator FM Low Power	State Zip Code (C.A. 9.2.7.1.1.
Community of License/Operation  City (20 characters) Portland  State U, R,	
4. TYPE OF STATION PROPOSED (Check appropriate boxes)  A. Remote Pickup	B. Aural Microwave Station
Base Mobile EBS	Automatic Relay
S. PURPOSE OF APPLICATION (Check appropriate box)	Translator Relay
6 NATURE OF PROPOSED CHANGES N/A	
Change Frequency Relocate station  Change Antenna System Add base station system	all sign of existing station Base Number Base Number Base Number Change power Replace equipment Change number of mobiles
Other (give as Exhibit No an explanation)	Change number of mobiles
7. A. If this application is a Remote Pickup or Low Power Auxiliary Station  B. If this application is a TV Pickup, Remote Pickup, or Low Power Auxiliary	_
B. If this application is a TV Pickup, Remote Pickup, or Low Power Aux	Cycles to transfer the case of
	Cycles to transfer the case of
8. If this application is a TV Pickup, Remote Pickup, or Low Power Auxi  8. FACILITIES REQUESTED (If more space is needed attach as Exhibit No. A. Frequency(ies) (MHz) (Use 17 characters for each line.)	liary Station System specify mobile number.
8. If this application is a TV Pickup, Remote Pickup, or Low Power Auxi 8. FACILITIES REQUESTED (If more space is needed attach as Exhibit No. A. Frequency(ies) (MHz) (Use 17 characters for each line.)  7100 - 7125	liary Station System en City mobile number.
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	ry of the circumstances in instruction 11 apply-atta	ich as Exhibit Nos.	N/A detailed ate	ements.	
			<del> </del>		
	ply the following antenna information (Review instr	ructions)			
Α. Ι	Manufacturer (20 characters)		Model No.		Antenna Gain
_	Cablewave	<del></del>	P.A.66	5, 3	9.90
	Antenna Polarization	Bear	nwidth (3db or ½ power points)	Eleva 1	ation Angle
_					5],
B.	If this is a directional antenna give azimuth of			<u>6.5</u> .•	•
C. D.	Overall height above ground of antenna structu			2.51 ft. 1 7.	meters
E.	Elevation of ground above mean sea level at an Elevation above ground of antenna center of ra		<u> </u>	5,0 ft.	7 6 meters
F.	Antenna sketch figure Passive ri		attach as Exhibit No.	2, 2; ft 6.	• 1 / ) meters
	an antenna be mounted on an existing antenna str	<del></del>		Yes	X No
IT TE	s, give the call sign and licensee's name.	_			
A. E	the application is for Aural Microwave station or i	ower power TV pick	cup station specify the following:		
		Type No. (14 charae		Output Power	
8.	If this application is for TV Microwave station i	is the transmitter ha	no accounted or	لسا • لسا	
<b>.</b>	was the transmitter manufactured before Octob	• •	pe accepted of	X Yes	□ No
	the FAA been notified of proposed construction? (	See Part 17 of FCC	Rules)	☐ Yes	□XI No
11 14	ss, give date and office where notified.				
Envi	ronmental Statement:				
Mor	ald a grant of this application be a major action as	defined by Section 1	1.1305 of the Commission's Rules?	Yes	X No.
	s, attach as Exhibit No the required staten	nent in accordance v	with Section 1.1311 of the Commi	ssion's Rules.	
If No	o, attach as Exhibit No an explanation.				
Des	cribe briefly the primary broadcast-related purpose	of the requested aut	thorization, attach as Exhibit No	<u>2</u> .	
	television auxiliary stations, state the anticipated pe				. 0 %
	condary uses are transmissions of material at times	when the station is i	not being used to transmit program	n material to its associat	ed broadcast statio
<b>C</b>					
	television auxiliary licensees, attach as Exhibit No.		al number of existing auxiliary author	rizations and indicate the	combined percenta
	television auxiliary licensees, attach as Exhibit No me for which these stations are presently used for		al number of existing auxiliary author	rizations and indicate the	combined percent
	me for which these stations are presently used for	secondary uses.			
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#### EXHIBIT ONE

A grant of this application would not be a major action as defined by Section 1.1305 of the Commission's Rules as it does not exceed 300 feet above ground level in height.

SUBMITTED BY:

W. Ben Miller

Engineering Consultant

National Minority TV, Inc.

## EXHIBIT TWO

The primary broadcast related purpose of the requested authorization is to relay programming from the studio to the transmitter site.

SUBMITTED BY:

W. Ben Miller

Engineering Consultant National Minority TV, Inc.

## EXHIBIT THREE

KTDZ has no existing auxiliary authorizations.

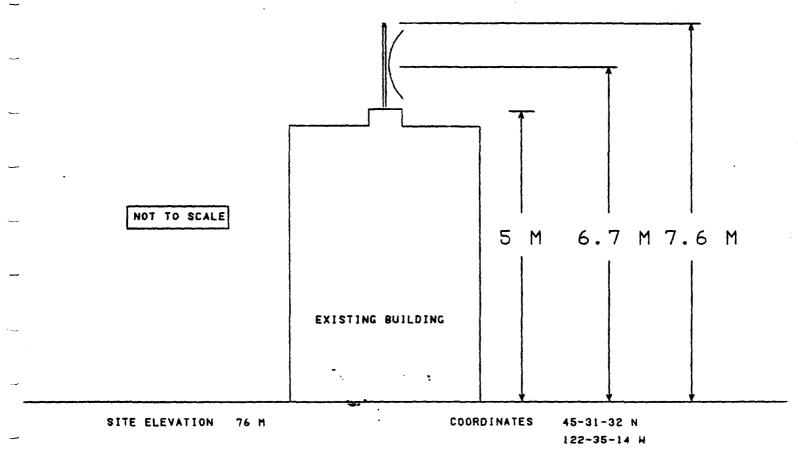
SUBMITTED BY:

W. Ben Miller

Engineering Consultant

National Minority TV, Inc.

# EXHIBIT 4



NATIONAL MINORITY TV, INC.

PROPOSED TELEVISION AUXILIARY TRANSMITTER LOCATION
432 NE 74TH ST., PORTLAND, OR.

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**MAY AND DUNNE** 

ESCROW ACCOUNT (202) 466-6220

1156 - 15TH STREET, N.W., SUITE 515 WASHINGTON, D.C. 20005 15-7011

NATIONAL PERMANENT BANK WASHINGTON, D.C. 20006

April 25

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FEDERAL COMMUNICATIONS COMMISSION

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DETACH AND RETAIN THIS STATEMENT

MAY AND DUNNE

BSCROW ACCOUNT

DATE	DESCRIPTION CONTROL OF
4/25/89	Filing fee for STL Application (FCC FOrm 313) for KTDZ-TV, \$75.00 Portland, Oregon, National Minority TV, Inc. (B47)
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The second secon	The state of the s

MAY & DUNNE

CHARTERED

ATTORNEYS AT LAW

1000 THOMAS JEFFERSON STREET, N.W.

SUITE 520

WASHINGTON, D.C. 20007

(202) 298-6345

NMTV/Portland, OR.

OF COUNSEL

TELECOPIER' NO. (202) 298-6375

December 5, 1989

JOSEPH E. DUNNE III

\*ALSO ADMITTED IN VIRGINIA

COLBY M. MAY"

RECEIVE HAND DELIVER

Donna R. Searcy Secretary Federal Communications Commission Washington, D.C. 20554

**120**3

KTDZ(TV), Portland, Oregon, Submission of License Application (BMPCT-880725KE)

Dear Ms. Searcy:

Filed herewith, in triplicate, on behalf of National Minority TV, Inc., licensee of KTDZ(TV), Portland, Oregon, is its license application (FCC Form 302) covering the referenced construction permit. KTDZ has been operating pursuant to the automatic program test provisions of Rule 73.1620 since November 16, 1989.

Please note that a check in the amount of \$150.00 is enclosed to cover the requisite filing fee.

If any questions should arise concerning this matter, kindly contact the undersigned directly.

Respectfully submitted,

NATIONAL MINORITY

By:

Colby M. May

Its Attorney

xc: KTDZ(TV) Public File

Public Fi

Fig. 12. Street Harm 12.

But the street Harman 12.

But the street Harman 12.

# Tarefully read instructions before filling out ( n) RETURN ONLY FORM TO FCC

3060-0029 Expires 9/30/90

or <u>Commission</u> Fee Use C	FEE NO:	FEE NO:		For <u>Applicant</u> Fee Use Only Is a fee submitted with this		
•	FEE TYPE:			application?  If No, indicate reason th		X Yes No
	FEE AMT:	FEE AMT:  10 SEQ:		Nonfeeable app		ieck dile boxy.
	D SEQ:			Fee Exempt (See 47 C.F.R. Section 1.1112  Noncommercial educational licenses  Governmental entity		
ECTION I - GENERAL D	ATA			For Commission Use On	Ŋ	,
Legal Name of Applicant	•		Mailing Add	dress		
National Minority	TV, Inc.		City Santa Ar	ox C11951	State CA	Zip Code 92711
			Telephone (714) 66	No. (include, area code)		
1. Facilities authorized by	construction permit		1 (/3.// 3.	•		
This application is for:	Commercial		loncommercia	vi		
AM Directional	AM Non-Direc	tional F	M Directional	FM Non-Direc	ctional	χ τν
Call Letters	Community of License	Construction	n Permit	Modification of Construction Permit File No(s).	1	on Date of Las
KTDZ	Portland	BAPCT-87	1218KG	BMPCT-880725KE	12/1	19/89
2. Is the station now open Section 73.1620?  If No, explain.	erating pursuant to auton	natic program	test authority	y in accordance with 47	CF.A.	X Yes
3. Have all the terms, cor fully met?	nditions, and obligations	set forth in th	e above des	cribed construction permit	I been	X Yes
If No. state exceptions	5.					
underlying construction		esult in any st		arisen since the grant of representation contained		Yes X
if Yes, explain,					•	
5. Has the permittee filed with 47 C.F.R. Section		(FCC Form 32	:3) or owner	ship certification in acco	rdance	X Yes
If No, explain.						Does not a

FCC

The APPLICANT hereby waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States: ause of the previous use of the same, the her by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as remended.)

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations and that all the exhibits are a material part hereof and are incorporated herein as set out in full in the application.

#### CERTIFICATION

icertify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

-	Name of Applicant	Signature
	National Minority TV, Inc.	Gan Duff
٦	Title Vice President	Date December 4, 1989

#### FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The principal purpose for which the information will be used is to determine if the benefit requested is consistent with the public interest. The staff, consisting variously of attorneys, engineers, and applications examiners, will use the information to determine whether the application—should be granted, denied, dismissed, or designated for hearing. If all, the information requested is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Accordingly, every effort should be made to provide all necessary information. Your response is required to obtain the requested authorization.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552x(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

FCC 302 (Page 2)

Name of Applicant

# NATIONAL MINORITY TV, INC.

		<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	<del></del>							
1. Facilities auth			<del> </del>							
Call Sign	Channel No	File No. (	of Construction Pe	rmit   Fro	equency Bar	nd	1	Carrier Frequ	•	
KTDZ-TV	24 +	BAPCT-	871218 KH		530-536	MHz	Visual 531.26	мнz 53	ural 5.76 !	MHz
	Maximum	Effective Radiate	d Power (visual)	<del></del>			Antenna I	neight above		
in dBk:	34.3		in kW: 2690	l				463		
2. Station location	on (principal c	community)					1		Me	eters
State	on (principal c	. Griffida Myz		City or	Town					
	OREGON		•			POR	TLAND		•	
3. Transmitter lo	cation			<u> </u>						
State	County		City or Town				-	r identificat	tieni	
OREGON	MULTN	IOMAH	PORTLAND		5	516 SW	Barnes	Road		
4. Main Studio I	ocation									
State	County		City or Town		Numb	er and S	itreet			
OREGON	MULTN	IOMAH	PORTLAND		4:	32 NE	74th Str	eet		
5. Operating cor	nstants - Visu	ial transmitter (p	eak)	<b>,</b>						
Transmitter pow- if used, and afte		er vestigal sideba if combined)	and filter,	Multiple: separate	cer loss in	dB, if	Input to t	ransmission	line	
17.78	dBk	60	k₩		Included	dB	· ·	17.78		dBk
Transmission line		Antenna input po		Maximur gain	n antenna p		Maximum	effective ra	diated po	
0.96	₫B	16.	82 dBk		17.51	dB		2690	•	(W
		with 47 C.F.R. S	ection 73.1660?	<u> </u>			X YES	□ NO	)	
If No. describe			<del></del>							
Antenna make a		and Multiplexer	Maximum power	ozio		Aver	age (BMS) h	orizontal pla	00 0000	
Andrew AT	• •	24	·	•			190 (I III I I I I		ine power	9441
Allurew All	M20U2-U2C-	-24	17.5	01	dB			12.16		d9
Elevation of the structure above all other appurtena	ground (includ	ing antenna and	Height of antenna above ground	radiation	center	I	t of antenn e mean sea	a radiation d level	enter	
	303			231	<b>.</b> 4			553		
Geographical Co		Meters	`.	• •	Meters				Me	eters
North Latitude	45 °	30	58 -	Wes	t Longitude		122 °	43	59 -	
is a directional	antenna used?			***************************************			X YES	□ NO	)	
is electrical or i	mechanical be	am tilting employ	/ed?				X YES		<b>o</b>	
If either a direc	tional antenna	or one employi	ng beam tilt is use	d. and the	radiation o	atterns	differ from	those on f	ile with 1	the
construction per	mit application	n, give full detail	ls in Exhibit No.	I/A						
Transmission Lir								·		
Make			Type No. WR	1800		Coax	ial or wave	<del>-</del>		
AN	IDREW			675			WAVEG COAXI			
Size (nominal in	side transvers	e dimensions)	Length	יחר מי			er loss for	this length		
WAVEGUID COAXIAL	DE - 46 x 2: - 15.5	3 centimeters	WAVEGU: COAXIA		Meters	1	WAVEGUID COAXIAL-			₫Ŝ
Multiplexer										
Make MICRO	COMMUNIC	ATIONS	Type No. #48(	009 .		1	INC.		INC.	cutpu
						<u> </u>		JB		<u>d8</u>
			CO					EF	C 302 (Pac	

7.	Free	JUANCY	measurement	•
	,,,,,,	400104	The GO AN BUTTER IN	•

Measured visual carrier frequency (specify at least to nearest 100 Hz)

531,260,000 Hz

Measured aural carrier center frequency (specify at least to nearest 100 Hz)

535,759,990 Hz

Give date measurements made and method used or frequency measurement service employed.

Measurements taken 6 November 1989 using Hewlett Packard Model 5351A Serial #2536A17828.
8. Performance Data

Have equipment performance measurements been taken in accordance with 47 CFR. Section 73,1590, demonstrating compliance with the Commission's transmission standards and transmission system requirements, and are those measurements available for submission to the Commission upon request?

X YES NO

If No. explain.

9. In what respect, if any, does the apparatus constructed differ from that described in the application for construction THE APPARATUS CONSTRUCTED DOES NOT DIFFER FROM THAT DESCRIBED IN THE APPLICATION FOR CONSTRUCTION PERMIT IN ANY SIGNIFICANT WAY.

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Name (Please Print or Type)  W. BEN MILLER	Signature 16hock appropriate box below?
Address (Include ZIP Code) P.O. BOX C-11949	November 7, 1989
SANTA ANA, CA 92711	Telephone No. (include Aree Code) (714) 665-2145

Registered Professional Engineer

Chief Operator

- Technical Consultant

Other Ispecifyl

#### McCLANATHAN and ASSOCIATES, INC.

CONSULTING ENGINEERS
P.O. BOX 750 - PORTLAND, OREGON 97207
(503) 246-3080

#### ENGINEERING REPORT

concerning

NATIONAL MINORITY TV, INC.

TELEVISION STATION CONSTRUCTION PERMIT F.C.C. FILE NO. BMPCT-880725KE, KTDZ-TV Channel 24, Portland, Oregon

REQUIRED CONDITIONS FOR MEASUREMENT OF AM RADIO STATION KYTE DIRECTIONAL ANTENNA FIELD STRENGTH PRIOR TO COMMENCING PROGRAM TESTS.

November 1989

#### McCLANATHAN and ASSOCIATES, INC.

CONSULTING ENGINEERS
P.O. BOX 750 - PORTLAND, OREGON 97207
(503) 246-8080

#### ENGINEERING REPORT

concerning

NATIONAL MINORITY TV, INC.

McClanathan and Associates, Inc., Professional Electrical Engineers, has been retained by National Minority TV, Inc., permittee for a construction permit to build a new commercial TV broadcast station KTDZ-TV on Channel 24 in Portland, Oregon, FCC File No. BMPCT-880725KE.

The transmitting antenna for KTDZ-TV is located on an existing tower near the directional antenna system for AM-Radio Station KYTE operating on 970 kHz. A condition of the KTDZ-TV construction permit is that a partial antenna proof of performance will be made for the KYTE antenna system, both prior to and after erection of the KTDZ-TV antenna equipment. This report and data describes the results of these measurements.

The KTDZ-TV transmitting and STL receiving antennas are mounted on the existing KOIN-TV Ch. 6 television tower in Portland. The KOIN-TV tower is a guyed structure with an overall height above ground of 300 meters and is in the immediate vicinity of the KYTE directional antenna system. To support the additional Ch. 24 TV antennas, significant structural changes to the KOIN-TV tower had to be completed.

Prior to commencing such changes, a partial antenna proof of performance, as described in 47 CFR 73.154(a), was initiated and completed on June 23, 1989. Measurements of the field strength for the KYTE directional antenna pattern were made at ten or more points on each of the ten radials included in the last complete antenna proof of performance dated August 1972. The original 7.5 minute USGS topographic maps used for the 1972 proof measurements were obtained from KYTE to facilitate locating the measurement points. Efforts were made to make the present measurements in the exact same location as the original measurements. The staff of KYTE cooperated fully in permitting KYTE to operate during daytime hours with the nighttime antenna pattern to facilitate the completion of taking the measurements.

Structural changes to the KOIN-TV tower were initiated on June 24, 1989. This work included the addition of three additional guy levels and concrete anchors to the existing three

guy levels. Structural changes were also made to the tower itself. The KTDZ-TV Ch. 24 antenna, Andrew Type ATW30H3-HSC-24, is side mounted at approximately 231 meters AGL.

Installed on the KOIN-TV tower are three, vertical detuning skirt systems to minimize any effect on the KYTE AM radiation pattern. After the KOIN-TV tower modifications and installation of all KTDZ-TV antennas were completed the three detuning systems on the tower were properly adjusted for minimum effect to the KYTE antenna pattern. This work was completed on October 7, 1989.

On October 14, 1989 another partial antenna proof of performance was completed for the KYTE directional antenna pattern. Measurements taken on the ten radials from KYTE and at the identical locations as the original points measured before construction. During both sets of measurements, Radio Station KYTE maintained their directional antenna system operating parameters in accordance with the KYTE instrument of authorization. No change was noted in the operating parameters after installation of the Ch. 24 TV antenna equipment and detuning of the KOIN-TV tower.

Field strength measurements were made concurrently by two field crews of two persons each. The undersigned engineer operated one field strength meter and Frank R. Baker, a staff technician with McClanathan and Associates, operated the other instrument. Both field strength meter instruments, Potomac Instruments Type FIM-41 and FIM-21, were compared with each other by each operator prior to and after making the measurements and the readings of the two instruments were within one percent of each other on all scales used. The Potomac Instruments calibration charts and dates for both instruments are attached.

The initial set of field strength measurements were made on June 23, 1989 prior to commencing work on the KOIN-TV tower. The final measurements were made on October 14, 1989 after completion of all tower and antenna installation work. The average ratio of the measurements are summarized as follows.

RADIAL Degree	6-23-89 /		6-23-89 / 10-14-89 Average Ratio
	Average Ra	tio Average Racio	Average Ratio
38	. 0.88	0.90	1.031
78	0.85	0.88	1.043
118	0.72	0.75	1.048
163	0.78	0.82	1.044
193	0.87	0.90	1.041
224	0.77	0.79	1.026

RADIAL Degree	6-23-89 / 1972 Average Ratio	10-14-89 / 1972 Average Ratio	6-23-89 / 10-14-89 Average Ratio
258 ; .	0.78	0.81	1.043
292	0.67	0.70	1.047
323	0.60	0.63	1.044
351	0.76	0.77	1.033
•		•	

Average ratio of 10-14-89 to 6-23-89 = 1.040

The above summary of the attached field strength measurement data shows that the average change of field strengths for the ten radials after changes to the tower and installation of the TV antenna equipment was 1.040 times the original measurements made on June 23, 1989. This increase is quite uniform over all ten radial directions from KYTE and is within the normal operating power limitation for KYTE.

The measurements described in this report demonstrate that the structural changes to the KOIN-TV tower and installation of the KTDZ-TV antenna equipment, after readjustment of the KOIN-TV tower detuning system, has not caused any change to the directional antenna system for KYTE.

#### Respectfully submitted,





→Robert A. McClanathan, P.E. McClanathan and Associates, Inc. Professional Electrical Engineers

November 6, 1989

KYTE POINT	38 RADIAL MILES	1 mV/m	TIME	2 mV/m	RATIO	TIME	3 mV/m	RATIO	RATIO
		1972	PDT	6-23-89	2/1	PDT	10-14-89	3/1	3/2
14 15	1.31	215	946	180	0.84	1043	195	0.91	1.08
16	1.87	113	955	100	0.88	1050	103	0.91	1.03
17	2.30	110	1000	87	0.79	1055	90	0.82	1.03
18	3.73	54	1011	51	0.94	1104	52	0.96	1.02
19.	4.66	29	1019	30	1.03	1110	30	1.03	1.00
20	5.77	26.5	1029	22.9	0.86	1117	24	0.91	1.05
21	6.50	25.2	1036	19.3	0.77	1122	20.5	0.81	1.06
22	7.46	17	1041	17.8	1.05	1126	18	1.06	1.01
23	9.00	15.5	1055	12.6	0.81	1138	12.5	0.81	0.99
24A	10.50	10	1110	7.8	0.78	1147	8	0.80	1.03
	AVERAGE				0.88			0.90	1.031

KYTE	78 RADIAL	1		2 '			3		
POINT	MILES	mV/m	TIME	mV/m	RATIO	TIME	mV/m	RATIO	RATIO
		1972	PDT	6-23-89	2/1	PDT	10-14-89	3/1	3/2
9	1.30	82	1356	77	0.94	1030	68	0.83	0.88
10MP	1.35	115	1354	88	0.77	1027	93	0.81	1.06
11	1.50	120	1350	96	0.80	1033	93	0.78	0.97
12	1.56	82	1345	79	0.96	1035	85	1.04	1.08
13	1.89	45	1250	42.5	0.94	1313	42	0.93	0.99
14	2.25	61	1245	51.5	0.84	1307	56	0.92	1.09
15	2.73	33.5	1240	33	0.99	1252	36.5	1.09	1.11
16	2.93	32	1237	32.5	1.02	1257	33	1.03	1.02
17	3.15	32.7	1230	27.9	0.85	1300	30	0.92	1.08
18	3.86	23.3	1223	16.4	0.70	1245	17.9	0.77	1.09
19A	4.30	19.7	1219	14.7	0.75	1240	15.5	0.79	1.05
20	4.74	14.5	1211	13.7	0.94	1237	14.6	1.01	1.07
21	5.25	12.7	1206	8.8	0.69	1232	9.4	0.74	1.07
22	6.34	10	1157	7.7	0.77	1225	8	0.80	1.04
23	7.13	9.5	1152	6.4	0.67	1221	6.8	0.72	1.06
24	8.2	5.2	1145	4.3	0.83	1215	4.5	0.87	1.05
25	9.7	4.3	1135	3.9	0.91	1208	4.1	0.95	1.05
	AVERAGE				0.85			0.88	1.043

·*	KYTE	118 RADIAL	. 1		2			3		
	POINT	MILES	mV/m 1972	TIME PDT	mV/m 6-23-89	RATIO 2/1	TIME PDT	mV/m 10-14-89	RATIO 3/1	RATIO 3/2
~	8	0.84	325	1406	277	0.85	1337	270	0.83	0.97
	9	0.94	290	1410	240	0.83	1333	248	0.86	1.03
	10	1.50	223	913	185	0.83	1008	198	0.89	1.07
~	11	1.65	172	900	159	0.92	1011	162	0.94	1.02
	12	2.00	135	908	109	0.81	1016	118	0.87	1.08
	13	2.45	112	850	57	0.51	944	61	0.54	1.07
	14	3.12	73.5	840	51	0.69	935	52	0.71	1.02
	15A	4.76	21.3	828	14.5	0.68	927	16	0.75	1.10
	16	5.40	25.3	821	16.2	0.64	921	18.8	0.74	1.16
,	17	6.07	27.5	814	15.2	0.55	915	16	0.58	1.05
	18	6.78	19	808	12.3	0.65	907	13.2	0.69	1.07
	19	7.90	12.5	801	7	0.56	902	6.6	0.53	0.94
	20	9.37	15	753	10.8	0.72	845	11	0.73	1.02
	21	10.00	11.3	748	9.5	0.84	840	10	0.88	1.05
		AVERAGE				0.72			0.75	1.048
	KYTE	163 RADIAI	1		2			3		
	POINT	MILES	mV/m	TIME	mV/m	RATIO	TIME	mV/m	RATIO	RATIO
			1972	PDT	6-23-89	2/1	PDT	10-14-89	3/1	3/2
	13	1.66	323	1725	293	0.91	1603	315	0.98	1.08
	14	1.95	233	1720	182	0.78	1558		0.86	1.10
	15	2.48	203	1714	148	0.73	1554	160	0.79	1.08
	16	2.63	180	1710	151	0.84	1550		0.90	1.07
	17	3.40	150	1701	122	0.81	1546		0.88	1.08
	18	3.87	130	1655	105	0.81	1541		0.86	1.07
	19	4.60	114	1648 -		0.70	1535		0.68	0.98
-	20	5.45	76	1642	56	0.74	1530		0.80	1.09
	21	6.07	68	1636	44	0.65	1524		0.63	0.98
	22	6.62	47	1630	39	0.83	1519		0.85	1.03
_	23	8.30	38	1615	31	0.82	1509	29	0.76	0.94
		AVERAGE				0.78			0.82	1.044

KYTE	193 RADIAL	1		2			3	÷	
POINT	MILES	mV/m	TIME	mV/m	RATIO	ŢIME	mV/m	RATIO	RATIO
	·	1972	PDT	6-23-89	2/1	PDT	10-14-89	3/1	3/2
10	1.25	470	1425	470	1.00	1348	458	0.97	0.97
11	1.50	405	1431	350	0.86	1352	380	0.94	1.09
12	1.80	245	1437	223	0.91	1355	230	0.94	1.03
13	2.34	243	1445	211	0.87	1402	230	0.95	1.09
14	2.68	240	1450	198	0.83	1405	205	0.85	1.04
15	3.02	198	1454	153	0.77	1407	170	0.86	1.11
16	3.78	155	1458	117	0.75	1411	125	0.81	1.07
17									
18	4.33	112	1505	95	0.85	1417	97	0.87	1.02
19	4.86	108	1510	105	0.97	1420	105	0.97	1.00
20	6.16	80	1526	63	0.79	1427	67	0.84	1.06
21	7.05	55	1533	50	0.91	1433	52	0.95	1.04
22	7.88	52.5	1538	. 48	0.91	1438	46.5	0.89	0.97
23	9.04	38	1547	33	0.87				
	AVERAGE				0.87			0.90	1.041

KYTE	224 RADIAL	1		2			3		
POINT	MILES	mV/m	TIME	mV/m	RATIO	TIME	mV/m	RATIO	RATIO
		1972	PDT	6-23-89	2/1	PDT	10-14-89	3/1	3/2
8	0.88	590	1537	540	0.92	1508	555	0.94	1.03
9									
10				• .	•				
11				•	•				
12	1.72	310	1530	<del>-2</del> 60	0.84	1504	267	0.86	1.03
13	2.00	330	1523	258	0.78	1501	260	0.79	1.01
14	2.52	232	1517	137	0.59	1454	147	0.63	1.07
15	3.07	195	1513	144	0.74	1450	151	0.77	1.05
16	3.80	145	1506	113	0.78	1445	122	0.84	1.08
17	4.80	125	1501	93	0.74	1437	96	0.77	1.03
18	6.23	105	1455	70	0.67	1431	68	0.65	0.97
19	7.58	80							
20	8.52	52.5	1446	48.5	0.92	1422	46	0.88	0.95
21	10.10	35.3	1440	26.7	0.76	1415	27.8	0.79	1.04
	AVERAGE				0.77			0.79	1.026

·	KYTE POINT	258 RADIAL MILES	mV/m	TIME	2 mV/m	RATIO	TIME	3 mV/m	RATIO	RATIO
			1972	PDT	6-23-89	2/1	PDT	10-14-89	3/1	3/2
	11	1.68	245	1331	175	0.71	1135	177	0.72	1.01
	12	2.38	160	1335	116	0.73	1252	126	0.79	1.09
	13	2.84	114	1337	91	0.80	1255	94	0.82	1.03
	14	3.10	112	1339	97	0.87	1257	98	0.88	1.01
	15	3.57	108	1343	93	0.86	1300	82	0.76	0.88
-	16	4.18	96	1347	72	0.75	1304	79	0.82	1.10
	17A	4.58	82	1350	68	0.83	1306	73	0.89	1.07
	18	5.96	46.5 .	1357	34	0.73	1321	37	0.80	1.09
<del></del>	19	6.74	43.5	1402	32.5	0.75	1325	35	0.80	1.08
	20	7.83	37	1407	26.6	0.72	1335	28.3	0.76	1.06
	21	8.94	34	1413	27	0.79	1342	28.2	0.83	1.04
	22	10.80	25.5	1423	19.6	0.77	1354	20.5	0.80	1.05
		AVERAGE				0.78			0.81	1.043
	KYTE	292 RADIAI	. 1		2			3	٠	
	POINT	MILES	mV/m	TIME	· mV/m	RATIO	TIME	mV/m	RATIO	RATIO
			1972	PDT	6-23-89	2/1	PDT	10-14-89	3/1	3/2
										4 00
	6A	1.24	265	1301	246	0.93	1245	268	1.01	1.09 1.02
	7	1.97	140	1258	81	0.58	1242	83	0.59 0.67	1.02
	8	2.09	180	1255	118	0.66	1240 1238	120 75	0.50	1.02
PC -	9	2.33	150	1253	75 86	0.50	1236		0.68	1.00
-	10	2.82	128	1249		0.64	1231		0.64	0.99
•	11	3.13	80	1248			1228		0.73	1.03
~	12	3.77	90	1242	64	0.71	1213		0.70	1.03
	13	4.78	67	1232	<b>45</b>	0.67			0.76	1.09
	14	5.73	49	1228	34 20 5	0.69 0.66	1208 1202		0.70	1.03
_	15	7.06	45	1224	29.5	0.68	1154		0.70	1.06
	16	8.60	38	1218	25.7	0.61	1134		0.72	1.14
	17	10.10	33	1214	20	0.01	1149	22.1	0.03	T . T .
		AVERAGE				0.67			0.70	1.047

KYTE	323 RADIAL	1		2			3		
POINT	MILES	mV/m	TIME	mV/m	RATIO	TIME	mV/m	RATIO	RATIO
		1972	PDT	6-23-89	2/1	PDT	10-14-89	3/1	3/2
10	1.48	265	950	184	0.69	1057	190	0.72	1.03
11									
12	1.72	260	1012	148	0.57	1050	147	0.57	0.99
13	1.83	323	1014	225	0.70	1052	227	0.70	1.01
14A	1.97	224	1016	. 146	0.65	1053	152	0.68	1.04
15	2.15	212	1018	120	0.57	1044	128	0.60	1.07
16	2.35	170	1020	116	0.68	1042	126	0.74	1.09
17	2.72	153	1041	96	0.63	1031	103	0.67	1.07
18	3.08	125	1044	71	0.57	1028	75	0.60	1.06
19	3.54	105	1047	57	0.54	1025	61	0.58	1.07
20	4.67	55	1051	26.5	0.48	1022	28	0.51	1.06
21	5.03	40	1053	22.7	0.57	1020	23.5	0.59	1.04
22	5.92	28.7	1100	16	0.56	1016	16.2	0.56	1.01
	AVERAGE				0.60			0.63	1.044

KYTE	351 RADIAL	. 1		2			3		
POINT	MILES	mV/m	TIME	mV/m	RATIO	TIME	mV/m	RATIO	RATIO
		1972	PDT	6-23-89	2/1	PDT	10-14-89	3/1	3/2
6	0.44	1450	942	1135	0.78	1129	1160	0.80	1.02
7	1.05	270	957	246	0.91	1100	250	0.93	1.02
8	1.57	160	954	119	0.74	1112	126	0.79	1.06
9	1.75	227	1001	. 97	0.43	1105	101	0.44	1.04
10	1.83	202	1007	112	0.55	1106	123	0.61	1.10
11A	1.98	140	1005	92	0.66	1107	96	0.69	1.04
12	3.26	35	1111	19.1	0.55	956	21	0.60	1.10
13	3.82	34	1117	19	0.56	959	20	0.59	1.05
14	5.05	27	1121	16.6	0.61	947	16.8	0.62	1.01
15	5.90	22	1127	16	0.73	943	16.4	0.75	1.03
16	6.58	14.2	1133	12	0.85	922	11.5	0.81	0.96
17A	10.20	6.6	1141	11.2	1.70	931	10.9	1.65	0.97
	AVERAGE				0.76			0.77	1.033

NOTE: POINTS LABELED "A" HAVE BEEN RELOCATED SLIGHTLY TO MINIMIZE EFFECTS DUE TO CONSTRUCTION CHANGES AT OR NEAR THE POINT.

## POTOMAC INSTRUMENTS, INC.

SILVER SPRING, MARYLAND

#### CERTIFICATE OF CALIBRATION

Field Intensity Meter Type FIM-21

Serial No. 488

This instrument was calibrated in an induction field of 220.0 millivolts per meter. At each measurement frequency the measured field was recorded and a correction factor K was computed: the indicated field must be multiplied by K to obtain the true field.

For some instruments a second factor K<sub>10</sub> is given for use only with measurements made on the 10 volts-per-meter full scale range.  $K_{10}$  is supplied only when applicable.

KHz	ĸ	MHz	K	KHz	K	MHz	K
540	1.000			1100	1.000		
600	1.000			1200	1.000		
700	1.000			1300	1.000		
800	1.000			1400	1.000		
900	1.000			1500	1.000		
1000	1.000		÷	1600	1.000		

Single frequency of

KHz only, K

The calibrating field is maintained equal to the National Bureau of Standards standard field within an accuracy of 1.0 per cent. NBS states that the absolute accuracy of its field is "believed to be within 3.0 per cent".

The error at points on the meter scale other than the calibration point is less than 3.0 per cent. The attenuator ratios are correct within 2.0 per cent. These accuracies apply for battery voltages that are indicated by the instrument's battery check circuit to be useable.

NEXT RECOMMENDED CALIBRATION DATE March 1988 Calibrated by Kinn & Cilini Date March 11, 1986

## STATE OF MARYLAND

Personally appeared before me this _	11th day of	March	19 <u>86</u> ,
Lynn D. Catino	who	testified under oa	ith that the above
calibration was made either by himself or uncertificate are true to the best of his knowled	der his direction a		

Wilbert Id. Ellemberger.

## POTOMAC INSTRUMENTS, INC.

SILVER SPRING, MARYLAND

## CERTIFICATE OF CALIBRATION

Field Intensity Meter Type FIM-41

Serial No. 140

This instrument was calibrated in an induction field of 220.0 millivolts per meter. At each measurement frequency the measured field was recorded and a correction factor K was computed: the indicated field must be multiplied by K to obtain the true field.

For some instruments a second factor  $K_{10}$  is given for use only with measurements made on the 10 volts-per-meter full scale range,  $K_{10}$  is supplied only when applicable.

KHz	<u>K</u>	MHz	<u>K</u>	KHz	<u>K</u>	MHz	K
540	1.000	1.6	1.000	1100	1.000	3.5	1.000
<b>60</b> 0	1.000	1.9	1.000	1200	1.000	3.8	1.000
700	1.000	2.2	1.000	1300	1.000	4.1	1.000
800	1.000	2.5	1.000	1400	1.000	4.4	1.000
900	1.000	2.8	1.000	1500	1.000	4.7	1.000
1000	1.000	3.2	1.000	1600	1.000	5.0	1.000
Single f	requency of	KH	iz only, K				

The calibrating field is maintained equal to the National Bureau of Standards standard field within an accuracy of 1.0 per cent. NBS states that the absolute accuracy of its field is "believed to be within 3.0 per cent".

Calibrated by Lynn &. Poline Date Oct. 15, 1980

#### STATE OF MARYLAND

Personally appeared before me this 15th day of October 1980.

Lynn D. Catino , who testified under oath that the above calibration was made either by himself or under his direction and that the statements in the above certificate are true to the best of his knowledge and belief.

Robert N. Ellenburger.